

Author Index

- Asano, M. and Gruss, P.
Pax-5 is expressed at the midbrain-hindbrain boundary during mouse development (39) 29
- Bienz, M., see Christen, B. (39) 73
- Biggers, J.D., see Palmieri, S.L. (39) 181
- Blum, M., see Jegalian, B.G. (39) 171
- Burfeind, J., see Van Wijk, I. (39) 63
- Butler, B.A., Soong, J. and Gergen, J.P.
 The *Drosophila* segmentation gene *runt* has an extended *cis*-regulatory region that is required for vital expression at other stages of development (39) 17
- Chowdhury, K., Goulding, M., Walther, C., Imai, K. and Fickenscher, H.
 The ubiquitous transactivator Zfp-38 is upregulated during spermatogenesis with differential transcription (39) 129
- Christen, B. and Bienz, M.
 A *cis*-element mediating *Ultrabithorax* autoregulation in the central nervous system (39) 73
- De Robertis, E.M., see Jegalian, B.G. (39) 171
- Etkin, L.D., see Reddy, B.A. (39) 143
- Fickenscher, H., see Chowdhury, K. (39) 129
- Fjose, A., Njølstad, P.R., Nornes, S., Molven, A. and Krauss, S.
 Structure and early embryonic expression of the zebrafish engrailed-2 gene (39) 51
- Gergen, J.P., see Butler, B.A. (39) 17
- Gossler, A., see Korn, R. (39) 95
- Gossler, A., see Soininen, R. (39) 111
- Goulding, M., see Chowdhury, K. (39) 129
- Gruss, P., see Asano, M. (39) 29
- Hashimoto, T., Nakano, Y., Morinaga, T. and Tamaoki, T.
 A new family of homeobox genes encoding multiple homeodomain and zinc finger motifs (39) 119
- Henseling, U., see Korn, R. (39) 95
- Henseling, U., see Soininen, R. (39) 111
- Imai, K., see Chowdhury, K. (39) 129
- Jegalian, B.G., Miller, R.W., Wright, C.V.E., Blum, M. and De Robertis, E.M.
 A *Hox 3.3-lacZ* transgene expressed in developing limbs (39) 171
- Karavanova, I., Vainio, S. and Thesleff, I.
 Transient and recurrent expression of the *Egr-1* gene in epithelial and mesenchymal cells during tooth morphogenesis suggests involvement in tissue interactions and in determination of cell fate (39) 41
- Kisters-Woike, B., see Soininen, R. (39) 111
- Kloc, M., see Reddy, B.A. (39) 143
- Kondo, S.
 A mechanistic model for morphogenesis and regeneration of limbs and imaginal discs (39) 161
- Korn, R., Schoor, M., Neuhaus, H., Henseling, U., Soininen, R., Zachgo, J. and Gossler, A.
 Enhancer trap integrations in mouse embryonic stem cells give rise to staining patterns in chimaeric embryos with a high frequency and detect endogenous genes (39) 95
- Krauss, S., see Fjose, A. (39) 51
- McLain, K., Schreiner, C., Yager, K.L., Stock, J.L. and Potter, S.S.
 Ectopic expression of *Hox-2.3* induces craniofacial and skeletal malformations in transgenic mice (39) 3
- Mercola, M., see Palmieri, S.L. (39) 181
- Miller, R.W., see Jegalian, B.G. (39) 171
- Molven, A., see Fjose, A. (39) 51
- Morinaga, T., see Hashimoto, T. (39) 119
- Nakano, Y., see Hashimoto, T. (39) 119
- Neuhaus, H., see Korn, R. (39) 95
- Njølstad, P.R., see Fjose, A. (39) 51
- Nornes, S., see Fjose, A. (39) 51
- Nusse, R., see Salinas, P.C. (39) 151
- Palmieri, S.L., Payne, J., Stiles, C.D., Biggers, J.D. and Mercola, M.
 Expression of mouse PDGF-A and PDGF α -receptor genes during pre- and post-implantation development: Evidence for a developmental shift from an autocrine to a paracrine mode of action (39) 181
- Payne, J., see Palmieri, S.L. (39) 181
- Pieler, T., see Van Wijk, I. (39) 63
- Potter, S.S., see McLain, K. (39) 3
- Reddy, B.A., Kloc, M. and Etkin, L.D.
 The cloning and characterization of a localized maternal transcript in *Xenopus laevis* whose zygotic counterpart is detected in the CNS (39) 143
- Rossant, J., see Soininen, R. (39) 111
- Salinas, P.C. and Nusse, R.
 Regional expression of the *Wnt-3* gene in the developing mouse forebrain in relationship to diencephalic neuromeres (39) 151
- Schoor, M., see Korn, R. (39) 95
- Schoor, M., see Soininen, R. (39) 111
- Schreiner, C., see McLain, K. (39) 3
- Sharpe, C.R.
 Two isoforms of retinoic acid receptor α expressed during *Xenopus* development respond to retinoic acid (39) 81
- Soininen, R., Schoor, M., Henseling, U., Tepe, C., Kisters-Woike, B., Rossant, J. and Gossler, A.
 The mouse *Enhancer trap locus 1 (Etl-1)*: a novel mammalian gene related to *Drosophila* and yeast transcriptional regulator genes (39) 111
- Soininen, R., see Korn, R. (39) 95
- Soong, J., see Butler, B.A. (39) 17
- Stiles, C.D., see Palmieri, S.L. (39) 181
- Stock, J.L., see McLain, K. (39) 3
- Tamaoki, T., see Hashimoto, T. (39) 119
- Tepe, C., see Soininen, R. (39) 111
- Thesleff, I., see Karavanova, I. (39) 41

Vainio, S., see Karavanova, I. (39) 41

Van Wijk, I., Burfeind, J. and Pieler, T.

Nuclear transport and phosphorylation of the RNA binding
Xenopus zinc finger protein XFG 5-1 (39) 63

Walther, C., see Chowdhury, K. (39) 129

Wright, C.V.E., see Jegalian, B.G. (39) 171

Yager, K.L., see McLain, K. (39) 3

Zachgo, J., see Korn, R. (39) 95

Subject Index

Autoregulation

Drosophila embryo; Transcriptional activation; Homeotic gene (Christen, B. (39) 73)

Brachydanio rerio

Engrailed; Muscle pioneer; Neural development; Regionalization (Fjose, A. (39) 51)

Brahma-like protein

Enhancer trap; Mouse; Development; SNF2-like protein (Soininen, R. (39) 111)

Brain development

Paired-box; Pax; Mouse embryogenesis (Asano, M. (39) 29)

Central nervous system

Localized mRNA; *Xenopus laevis*; Oocyte; Development; Embryogenesis (Reddy, B.A. (39) 143)

Chimaeric embryo

Enhancer trap; Mouse; Embryonic stem cell; *lacZ* expression pattern (Korn, R. (39) 95)

Cis-regulatory element

Drosophila; Segmentation; *runt*; Neural development (Butler, B.A. (39) 17)

Computer simulation

Morphogenesis; Regeneration; Reaction-diffusion model (Kondo, S. (39) 161)

Development

Enhancer trap; Mouse; Brahma-like protein; SNF2-like protein (Soininen, R. (39) 111)

Localized mRNA; *Xenopus laevis*; Central nervous system; Oocyte; Embryogenesis (Reddy, B.A. (39) 143)

Diencephalon

Mouse; Segmentation; *Distal-less* gene; *Wnt* gene (Salinas, P.C. (39) 151)

Distal-less gene

Mouse; Segmentation; Diencephalon; *Wnt* gene (Salinas, P.C. (39) 151)

Drosophila

Segmentation; *runt*; Cis-regulatory element; Neural development (Butler, B.A. (39) 17)

Drosophila embryo

Transcriptional activation; Homeotic gene; Autoregulation (Christen, B. (39) 73)

Early growth response-1 gene (Egr-1)

Wilms' tumor-1 gene (wt-1); Tooth development; Epithelial-mesenchymal interaction; Transcription factor (Karavanova, I. (39) 41)

Ectopic expression

Homeobox gene; Skeletal defect; Transgenic mouse (McLain, K. (39) 3)

Embryogenesis

Xenopus; Zinc finger; Nuclear transport; Phosphorylation (Van Wijk, I. (39) 63)

Localized mRNA; *Xenopus laevis*; Central nervous system; Oocyte; Development (Reddy, B.A. (39) 143)

Embryonic stem cell

Enhancer trap; Mouse; Chimaeric embryo; *lacZ* expression pattern (Korn, R. (39) 95)

Engrailed

Brachydanio rerio; Muscle pioneer; Neural development; Regionalization (Fjose, A. (39) 51)

Enhancer trap

Mouse; Embryonic stem cell; Chimaeric embryo; *lacZ* expression pattern (Korn, R. (39) 95)

Mouse; Development; Brahma-like protein; SNF2-like protein (Soininen, R. (39) 111)

Epithelial-mesenchymal interaction

Early growth response-1 gene (Egr-1); Wilms' tumor-1 gene (wt-1); Tooth development; Transcription factor (Karavanova, I. (39) 41)

Homeobox gene

Ectopic expression; Skeletal defect; Transgenic mouse (McLain, K. (39) 3)

Homeotic gene

Drosophila embryo; Transcriptional activation; Autoregulation (Christen, B. (39) 73)

Hox 3.3

Transgene; Mouse embryo; Limb bud; *lacZ*; Retina (Jegalian, B.G. (39) 171)

Limb bud

Hox 3.3; Transgene; Mouse embryo; *lacZ*; Retina (Jegalian, B.G. (39) 171)

Localization

Zfp-38; Nucleotide sequence; Transcription; Regulation; Transactivator; Spermatogenesis (Chowdhury, K. (39) 129)

Localized mRNA

Xenopus laevis; Central nervous system; Oocyte; Development; Embryogenesis (Reddy, B.A. (39) 143)

Morphogenesis

Computer simulation; Regeneration; Reaction-diffusion model (Kondo, S. (39) 161)

Mouse

Enhancer trap; Embryonic stem cell; Chimaeric embryo; *lacZ* expression pattern (Korn, R. (39) 95)

Enhancer trap; Development; Brahma-like protein; SNF2-like protein (Soininen, R. (39) 111)

Segmentation; Diencephalon; *Distal-less* gene; *Wnt* gene (Salinas, P.C. (39) 151)

Mouse embryo

Hox 3.3; Transgene; Limb bud; *lacZ*; Retina (Jegalian, B.G. (39) 171)

Mouse embryogenesis

Paired-box; Pax; Brain development (Asano, M. (39) 29)

Platelet-derived growth factor; Tyrosine kinase receptor (Palmieri, S.L. (39) 181)

Muscle pioneer

Brachydanio rerio; *Engrailed*; Neural development; Regionalization (Fjose, A. (39) 51)

Neural development

Drosophila; Segmentation; *runt*; *Cis*-regulatory element (Butler, B.A. (39) 17)

Brachydanio rerio; *Engrailed*; Muscle pioneer; Regionalization (Fjose, A. (39) 51)

Retinoic acid; Retinoic acid receptor; *Xenopus* (Sharpe, C.R. (39) 81)

Nuclear transport

Xenopus; Zinc finger; Phosphorylation; Embryogenesis (Van Wijk, I. (39) 63)

Nucleotide sequence

Zfp-38; Localization; Transcription; Regulation; Transactivator; Spermatogenesis (Chowdhury, K. (39) 129)

Oocyte

Localized mRNA; *Xenopus laevis*; Central nervous system; Development; Embryogenesis (Reddy, B.A. (39) 143)

Paired-box

Pax; Brain development; Mouse embryogenesis (Asano, M. (39) 29)

Pax

Paired-box; Brain development; Mouse embryogenesis (Asano, M. (39) 29)

Phosphorylation

Xenopus; Zinc finger; Nuclear transport; Embryogenesis (Van Wijk, I. (39) 63)

Platelet-derived growth factor

Tyrosine kinase receptor; Mouse embryogenesis (Palmieri, S.L. (39) 181)

Reaction-diffusion model

Morphogenesis; Computer simulation; Regeneration (Kondo, S. (39) 161)

Regeneration

Morphogenesis; Computer simulation; Reaction-diffusion model (Kondo, S. (39) 161)

Regionalization

Brachydanio rerio; *Engrailed*; Muscle pioneer; Neural development (Fjose, A. (39) 51)

Regulation

Zfp-38; Nucleotide sequence; Localization; Transcription; Transactivator; Spermatogenesis (Chowdhury, K. (39) 129)

Retina

Hox 3.3; Transgene; Mouse embryo; Limb bud; *lacZ* (Jegalian, B.G. (39) 171)

Retinoic acid

Retinoic acid receptor; Neural development; *Xenopus* (Sharpe, C.R. (39) 81)

Retinoic acid receptor

Retinoic acid; Neural development; *Xenopus* (Sharpe, C.R. (39) 81)

runt

Drosophila; Segmentation; *Cis*-regulatory element; Neural development (Butler, B.A. (39) 17)

Segmentation

Drosophila; *runt*; *Cis*-regulatory element; Neural development (Butler, B.A. (39) 17)

Mouse; Diencephalon; *Distal-less* gene; *Wnt* gene (Salinas, P.C. (39) 151)

Skeletal defect

Ectopic expression; Homeobox gene; Transgenic mouse (McLain, K. (39) 3)

SNF2-like protein

Enhancer trap; Mouse; Development; Brahma-like protein (Soininen, R. (39) 111)

Spermatogenesis

Zfp-38; Nucleotide sequence; Localization; Transcription; Regulation; Transactivator (Chowdhury, K. (39) 129)

Tooth development

Early growth response-1 gene (*Egr-1*); Wilms' tumor-1 gene (*wt-1*); Epithelial-mesenchymal interaction; Transcription factor (Karanova, I. (39) 41)

Transactivator

Zfp-38; Nucleotide sequence; Localization; Transcription; Regulation; Spermatogenesis (Chowdhury, K. (39) 129)

Transcription

Zfp-38; Nucleotide sequence; Localization; Regulation; Transactivator; Spermatogenesis (Chowdhury, K. (39) 129)

Transcriptional activation

Drosophila embryo; Homeotic gene; Autoregulation (Christen, B. (39) 73)

Transcription factor

Early growth response-1 gene (*Egr-1*); Wilms' tumor-1 gene (*wt-1*); Tooth development; Epithelial-mesenchymal interaction (Karanova, I. (39) 41)

Transgene

Hox 3.3; Mouse embryo; Limb bud; *lacZ*; Retina (Jegalian, B.G. (39) 171)

Transgenic mouse

Ectopic expression; Homeobox gene; Skeletal defect (McLain, K. (39) 3)

Tyrosine kinase receptor

Platelet-derived growth factor; Mouse embryogenesis (Palmieri, S.L. (39) 181)

Wilms' tumor-1 gene (wt-1)

Early growth response-1 gene (Egr-1); Tooth development; Epithelial-mesenchymal interaction; Transcription factor (Karavanova, I. (39) 41)

Wnt gene

Mouse; Segmentation; Diencephalon; *Distal-less* gene (Salinas, P.C. (39) 151)

Xenopus

Zinc finger; Nuclear transport; Phosphorylation; Embryogenesis (Van Wijk, I. (39) 63)

Retinoic acid; Retinoic acid receptor; Neural development (Sharpe, C.R. (39) 81)

Xenopus laevis

Localized mRNA; Central nervous system; Oocyte; Development; Embryogenesis (Reddy, B.A. (39) 143)

lacZ

Hox 3.3; Transgene; Mouse embryo; Limb bud; Retina (Jegalian, B.G. (39) 171)

lacZ expression pattern

Enhancer trap; Mouse; Embryonic stem cell; Chimaeric embryo (Korn, R. (39) 95)

Zfp-38

Nucleotide sequence; Localization; Transcription; Regulation; Transactivator; Spermatogenesis (Chowdhury, K. (39) 129)

Zinc finger

Xenopus; Nuclear transport; Phosphorylation; Embryogenesis (Van Wijk, I. (39) 63)

